Concentrated Solar Power in the Global Market Place

Facilitating Sustainable Investment Opportunities in Emerging Markets

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The Global Environment Facility (GEF)

Objectives and Mandates:

- World Bank administered Trust Fund
- To finance implementation of international environmental agreements in Developing Countries and Eastern Europe
- Volume \$ 2, 7 Billion for three years
- about 40% of the resources are being allocated for clean energy projects, including CSP, PV and other RET
- Details of GEF's portfolio are available at www.gefweb.org

GEF's RET Market Objectives

- To assist market participants and regulators in addressing key market barriers
- To foster dialogues and coalitions among key players interested in specific RET markets
- To facilitate innovation/creative ways and means to forge market activity and growth

Barriers: The "4P" Challenge

- Price
- Purchasing Power
- Product Marketing
- Playing Field

Experience & Lessons:

- Isolated strategies that address one barrier alone are not promising,
- Efforts led by one player alone tend to be insignificant from a broader market development perspective

1. Price:

- Capital Costs are a function of installation price & perceived operating risks
- Installation price can be brought down through scale
- Required are market aggregation/ procurement coalitions
- Power market restructuring/ emergence of merchant plants enhances operating risks
- Innovative risk management vehicles are required to reduce capital costs

2. Lack of Purchasing Power:

- ? Privatization of utilities is still in its early stages, local utilities tend to be undercapitalised,
- ? Independent power producers are just emerging; they have difficulties to access venture capital due to incalculable market risks,
- ? Energy markets seem to be not yet sufficiently developed to trigger alliances among key players in emerging market environments,
- ? While it is relatively easy to obtain to RE subsidies, it appears to be almost impossible to access venture capital for RET investments in non OECD countries,
- ? Development of customized financing instruments is required to enhance access to debt and equity

3. Product Marketing

- Information about newly emerging Technology Alternatives is insufficient
- Difficult access to dispatch models that allow easy modeling of RET integration into GRIDs
- Lack of information leads to exaggerated risk perceptions and hesitation to "test" the technology in feasibility studies

4. Leveling the Playing Field:

- ? Government efforts to level the playing field for RE are still in their infancy.
- ? IPP and PPA frameworks are non-existent or not credible
- ? Countries outside the sunbelt cultivate small "premium markets" that divert industry interest away from more promising opportunities in countries that are favoured by the sun.
- ? Market activity triggered by largely uncoordinated PV subsidy programs in OECD countries distort the market place and is not sufficient to prompt investments in large scale manufacturing facilities.
- ? Innovative risk sharing and risk distribution approaches need to replace subsidies

Proposed Way Forward:

- Development of an integrated approach that aims to engage key players interested in the market
- Exploration of a Global Market Development Coalition that would enable integrated efforts to systematically address identified barriers.
- Substitution of subsidies by risk sharing incentives at all levels